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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/717,916	11/21/2003	Johan Soderdahl	20260-00079-US	7571	
30678 7590 12/06/2005 EXAMINER				INER	
CONNOLLY BOVE LODGE & HUTZ LLP SUITE 800			SICONOLF	SICONOLFI, ROBERT	
1990 M STREET NW WASHINGTON, DC 20036-3425			ART UNIT	PAPER NUMBER	
			3683		

DATE MAILED: 12/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		T & 11 4/ \			
	Application No.	Applicant(s)			
	10/717,916	SODERDAHL, JOHAN			
Office Action Summary	Examiner	Art Unit			
	Robert A. Siconolfi	3683			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the o	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION  (a) In no event, however, may a reply be the service of the service o	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 11 Ju	dv 2005				
	action is non-final.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under E	•				
Disposition of Claims	•				
4)⊠ Claim(s) <u>1-9 and 11-16</u> is/are pending in the ar	polication				
4a) Of the above claim(s) <u>11-14</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-9,15 and 16</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
·· _	_				
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Ex		•			
The bath of declaration is objected to by the Ex	ammer. Note the attached Office	ACTION OF TO TO 132.			
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents</li> <li>2. Certified copies of the priority documents</li> <li>3. Copies of the certified copies of the prior application from the International Bureau</li> <li>* See the attached detailed Office action for a list</li> </ul>	s have been received. s have been received in Applicat ity documents have been receive (PCT Rule 17.2(a)).	ion No ed in this National Stage			
Attachment(s)					
Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail D				

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#### **DETAILED ACTION**

1. Amendment filed on 7/11/05 has been received.

## Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 1-9, 15, 16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 4. Claims 1, 16 discloses a second and third means. The second and third means seem to correspond to the pressure relief valves and the gas volume claimed in dependent claims. However, the elements are not identified as second and third means. Therefore, it is unclear to the examiner as to the scope of the claims.

## Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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6. Claim 1-9 15 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Crouch and further in view of Tsuchiya et al (U. S. Patent no. 4,693,454).

Crouch discloses:

See figure 1 piston E, passage m at a position near the fully expanded position

Crouch does not disclose temperature compensation or non-return valves. Ingham teaches temperature compensation and non-return valves (see figure 4 adjustable pressure-relief/temperature compensation valves 21,22, adjustable non-return valve 23). It would have been obvious to one of ordinary skill in the art at the time the invention was made to use temperature compensation and non-return valves as taught by Ingham in the device of Crouch in order to ensure that the proper device pressure is available at all times. Changes in temperature can lead to a change of the spring characteristic. The use of these valves allows the spring rate to be maintained over a variety of temperatures.

Crouch, as modified, is relied upon as above. Crouch, as modified, does not disclose connecting the expansion chamber to a gas volume. Tsuchiya et al teaches connecting the expansion chamber to a compressed air source (see figure 9 source 640). It would have been obvious to one of ordinary skill in the art at the time the invention was made to as taught by Tsuchiya et al. in the device of Crouch, as modified, in order to operate the gas spring at a pressure different than atmospheric pressure (e.g. higher pressure which would produce a higher spring rate).

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## Response to Arguments

7. Applicant's arguments filed 7/11/05 have been fully considered but they are not persuasive. Applicants argue none of the references teach a passage between the two chambers open in only one predetermined position. Examiner disagrees and notes passage m.

#### Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert A. Siconolfi whose telephone number is 571-272-7124. The examiner can normally be reached on M-F 10 am-3 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Marmor can be reached on (571) 272-7095. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner Art Unit 3683 9/27/05

RS